

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2063	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 2063 Crows Landing	U	10.63				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	2.34		2.34	22.01%		
Trim / Thin Trees	0.01		0.01	0.09%		
Encroachments	0.01	0.01	0.05	0.47%	0.01	
Animal Control	0.10		0.10	0.94%		
Slope Stability	0.01		0.01	0.09%		
Erosion / Bank Caving		0.16	0.64	6.02%		
Crown Surface / Depressions / Rutting	0.24		0.24	2.26%		
<i>Channels</i>						
Encroachments		0.01	0.04	0.38%		
LMA Totals:	2.71	0.18	3.43	32.27%	0.01	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2010 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	10.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/5/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Right	10.63	11/09/2010 11/09/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.02	0.51	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.478550 ° -121.044603 °	37.471548 ° -121.044553 °	3
2	0.02	0.51	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.478548 ° -121.044605 °	37.471545 ° -121.044553 °	2
3	1.19	1.19	Earthen Levee	Animal Control	LS	A	Exterminate rodents and backfill and compact or grout burrows.	37.465688 ° -121.034907 °	37.465688 ° -121.034907 °	969
4	1.33	1.33	Earthen Levee	Animal Control	LS	A	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.464643 ° -121.032930 °	37.464643 ° -121.032930 °	970
5	1.35	1.35	Earthen Levee	Encroachments	LS	PO	Ramp Inspector Comments: Ramp does not meet CVFPB standards. Ramp has 18-20" vertical cut at landside shoulder.	37.464308 ° -121.032603 °	37.464308 ° -121.032603 °	6 Y
6	1.39	1.39	Earthen Levee	Animal Control	LS	A	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.463875 ° -121.032355 °	37.463875 ° -121.032355 °	971
7	1.47	1.50	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.462723 ° -121.032020 °	37.462303 ° -121.031928 °	8
8	1.54	1.54	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.461762 ° -121.031822 °	37.461762 ° -121.031822 °	10 Y
9	1.57	1.57	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.461322 ° -121.031785 °	37.461322 ° -121.031785 °	4
10	1.69	1.69	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.459813 ° -121.032372 °	37.459813 ° -121.032372 °	11 Y
11	2.09	2.09	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.454593 ° -121.032530 °	37.454593 ° -121.032530 °	972
12	2.31	2.47	Earthen Levee	Erosion / Bank Caving	LS	U	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is accruing around 10-12 inch concrete irrigation pipe at landside toe.	37.451927 ° -121.030555 °	37.450290 ° -121.028592 °	12 Y
13	2.56	2.56	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.449432 ° -121.027472 °	37.449432 ° -121.027472 °	13
14	2.72	2.72	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 10/20/2010: Site has been repaired by the district. Site was previously rated "M". 08/06/2010: Recommended as local maintenance issue, per CLRO. [2010 SiteID: RD2063U01RM105.5]	37.447450 ° -121.026090 °	37.447450 ° -121.026090 °	1
15	2.72	2.79	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.447512 ° -121.026050 °	37.446574 ° -121.025643 °	982
16	2.78	2.84	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.446722 ° -121.025640 °	37.445925 ° -121.025528 °	14

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Right	10.63	11/09/2010 11/09/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
17	2.87	2.90	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.445497 ° -121.025560 °	37.444985 ° -121.025622 °	15
18	3.37	3.42	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.440862 ° -121.020817 °	37.440237 ° -121.020372 °	16
19	3.56	3.56	Earthen Levee	Animal Control	WS	A	Exterminate rodents and backfill and compact or grout burrows.	37.438504 ° -121.019079 °	37.438504 ° -121.019079 °	973
20	3.96	4.10	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.434403 ° -121.014298 °	37.432653 ° -121.013327 °	17
21	4.53	4.53	Channels	Encroachments	WS	U		37.428852 ° -121.007698 °	37.428852 ° -121.007698 °	18 Y
22	4.70	4.74	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.429813 ° -121.004970 °	37.430017 ° -121.004335 °	19
23	4.71	4.71	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.429892 ° -121.004768 °	37.429892 ° -121.004768 °	20
24	5.12	5.12	Earthen Levee	Encroachments	WS	M	Garbage Inspector Comments: Old pipes on waterside slope should be removed.	37.427375 ° -120.999343 °	37.427375 ° -120.999343 °	21
25	5.13	5.13	Earthen Levee	Encroachments	LS	U	Pipe Inspector Comments: Landowner modified pipe structure and cut into landside slope without permission from CVFPB. See field investigation report for more detail.	37.427210 ° -120.999288 °	37.477210 ° -120.992880 °	50 Y
26	6.05	6.63	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.416235 ° -120.997563 °	37.411285 ° -120.998188 °	22
27	6.09	6.09	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.415887 ° -120.998083 °	37.415887 ° -120.998083 °	5
28	6.89	6.89	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.411785 ° -120.993548 °	37.411785 ° -120.993548 °	39
29	7.69	7.69	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.403516 ° -120.985718 °	37.403516 ° -120.985718 °	7
30	7.81	7.90	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.402400 ° -120.984087 °	37.401563 ° -120.982775 °	23
31	7.88	7.88	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.401774 ° -120.983132 °	37.401774 ° -120.983132 °	9
32	8.06	8.23	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.400930 ° -120.980157 °	37.401148 ° -120.977320 °	24
33	9.44	9.60	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.390727 ° -120.962520 °	37.390683 ° -120.959570 °	25

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
34	10.38	10.62	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.390557 ° -120.945715 °	37.390508 ° -120.941290 °	47

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Levee Inspection Report By Mile - Fall 2010

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Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at ramp and equipment working pad on landside slope with a 18-20" vertical cut at shoulder.

richard_f_20101110_387.jpg



Levee Mile Report Line	5
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at 18-20" vertical cut for ramp on landside shoulder and slope

richard_f_20101110_388.jpg



Levee Mile Report Line	8
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking east at landside slope damage (six to eight inch erosion) by vehicle

richard_f_20101110_389.jpg



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Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking west at landside slope damage cause by vehicle traffic.

richard_f_20101110_390.jpg



Levee Mile Report Line	10
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at squirrel holes on landside slope.

richard_f_20101110_391.jpg



Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking west at slope caving around concrete irrigation pipe on landside toe.

richard_f_20101110_392.jpg



*** Location**

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at additional caving around concrete pipe.

richard_f_20101110_393.jpg



Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at site #1 caving around pipe on landside slope.

richard_f_20101110_394.jpg



Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking west at caving around concrete pipe at site #3.

richard_f_20101110_395.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking west at concrete irrigation pipe that runs along landside toe.

richard_f_20101110_396.jpg



Levee Mile Report Line	12
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southwest at site # 4 of slope caving around concrete irrigation pipe at landside toe.

richard_f_20101110_397.jpg



Levee Mile Report Line	21
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Water Side
Category	Channels
Item	Encroachments

Looking west at garbage, pruning and concrete rubble piles in channel.

richard_f_20101110_398.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/09/2010 11/09/2010	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Water Side
Category	Channels
Item	Encroachments

Looking northwest at garbage in channel.

richard_f_20101110_399.jpg



Levee Mile Report Line	25
Start Levee Mile	5.13
End Levee Mile	5.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of cut into landside slope

richard_f_20100921_311.jpg



Levee Mile Report Line	25
Start Levee Mile	5.13
End Levee Mile	5.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of concrete stand pipe and encased pipe on landside toe.

richard_f_20100921_312.jpg



*** Location**

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